

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P60194PCT	FOR FURTHER ACTION <small>see Form PCT/ISA/220 as well as, where applicable, Item 5 below.</small>	
International application No. PCT/EP2004/008492	International filing date (day/month/year) 28/07/2004	(Earliest) Priority Date (day/month/year) 08/08/2003
Applicant ATOTECH DEUTSCHLAND GMBH		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☒ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P60194PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2004/008492	International filing date (day/month/year) 28/07/2004	(Earliest) Priority Date (day/month/year) 08/08/2003
Applicant ATOTECH DEUTSCHLAND GMBH		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☒ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2004/008492

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 1,21,24 (incompletely searched)
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/008492A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C25D3/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C25D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 300 486 A (SHIPLEY CO. L.L.C) 9 April 2003 (2003-04-09) cited in the application	1-3,8-24
Y	claims 14-23,33-42; example 2 page 2, lines 49,50 page 4, lines 40,41 page 5, lines 27-31,42-47 page 6, lines 11-52 page 8, lines 15-17	4-6
X	EP 1 300 487 A (SHIPLEY CO. L.L.C) 9 April 2003 (2003-04-09) cited in the application claims 1,6,10,12-18,23,26,28-31,46,59 page 7, lines 19-22,40-42 page 9, lines 15-21 page 2, lines 49,50; examples 2,3 ----- -/-	1,2,7-24



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

23 February 2005

Date of mailing of the international search report

18/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Gault, N

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/008492

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1300486	A	09-04-2003	US 2003085132 A1 EP 1300486 A1 JP 2003113490 A TW 587104 B US 2004074778 A1	08-05-2003 09-04-2003 18-04-2003 11-05-2004 22-04-2004
EP 1300487	A	09-04-2003	US 2003102226 A1 EP 1300487 A1 JP 2003129270 A	05-06-2003 09-04-2003 08-05-2003
EP 1001054	A	17-05-2000	EP 1001054 A2 JP 2001026898 A KR 2000035248 A TW 577938 B US 2002104763 A1	17-05-2000 30-01-2001 26-06-2000 01-03-2004 08-08-2002
FR 2139724	A	12-01-1973	FR 2096936 A5 FR 2139724 A2 AU 3125771 A BE 769848 A1 DE 2135071 A1 LU 63544 A1 NL 7109803 A HU 162296 B ZA 7104660 A	03-03-1972 12-01-1973 18-01-1973 16-11-1971 20-01-1972 16-11-1971 19-01-1972 29-01-1973 26-04-1972
FR 2096936	A	03-03-1972	FR 2139724 A2 FR 2096936 A5 AU 3125771 A BE 769848 A1 DE 2135071 A1 HU 162296 B LU 63544 A1 NL 7109803 A ZA 7104660 A	12-01-1973 03-03-1972 18-01-1973 16-11-1971 20-01-1972 29-01-1973 16-11-1971 19-01-1972 26-04-1972
US 4601847	A	22-07-1986	US 4502926 A AU 575838 B2 AU 3072084 A CA 1252413 A1 JP 60059093 A ZA 8405192 A	05-03-1985 11-08-1988 28-02-1985 11-04-1989 05-04-1985 27-02-1985
US 4000047	A	28-12-1976	DE 2356678 A1 FR 2207195 A1 GB 1438701 A JP 49135833 A	30-05-1974 14-06-1974 09-06-1976 27-12-1974

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/008492

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 001 054 A (C. UYEMURA & CO, LTD) 17 May 2000 (2000-05-17) page 4, lines 38-56; claims 1,10 page 5, lines 28-33 No 12,14,17,19 of table 3 -----	1-3, 7-10,12, 15,16, 21-24
Y	FR 2 139 724 A (LABOLAC,FR) 12 January 1973 (1973-01-12) page 1, lines 20-27; claims 1,2; figures I-V,VII-VIII -----	4-6
Y	& FR 2 096 936 A (LABOLAC) 3 March 1972 (1972-03-03) page 2, lines 14-16; claim 1 -----	4-6
A	US 4 601 847 A (BARBER, JR. ET AL) 22 July 1986 (1986-07-22) claim 8 -----	1-3,7
A	US 4 000 047 A (OSTROW ET AL) 28 December 1976 (1976-12-28) column 8, lines 31-54; claim 13 -----	1-3,7